Notebook Series -- Notebooks by Edison
Notebook, N-14-06-09

This notebook is a continuation of N-13-08-25.2. It was used by Edison and Peter C. Christensen during the period June 1914-February 1915 for a sequence of numbered "tracking tests" to improve the quality of the "white master" records. Preceding the tests are entries by Christiansen alone [not selected] listing various experimental preparations of wax compounds and phenol resins. The notes indicate that an employee named Miller (probably Joseph Miller) worked with Edison. The spine is labeled "Testing #2." The pages are unnumbered. Approximately 50 pages have been used.

402 Drags a little
Temperature 92 Fahr

Better than the other 402 has a very small drag due probably to high temp 92°
Surface not as good as 651 —
Contains chip-shade Elec
651 none —

About like 402 chilled
little worse drag —

Tracking Test #101

#655. Very good almost perfect, surface & chunk is better than 651

656. Don't think it is good surface as 655.

657 - Drags little -

Drags Bad -

659 - About perfect, surface more than best surface
651 — 84° Tabs Continuous chip -

660. Shade of Drag -

Tracking Test #102

661 Not homogeneous - ingredients don't mix -

662 - Just little poorer surface than 651 but still good - no drag -

663 - About perfect no Elec Continuous chip. fine surface only trace of drag ball -

664 Drags -

665 - OK perfect, ordinary depth. Tracking chip is transparent + perfectly Continuous. Even way below knife chips are 1/2" long

Tracking Test | 103

666. good but not quite as good surface as 665 but consumes Clup perfect like 665 –

667 – about same as 663. slude more bounce of Ball –

668 – Just same as 665 – good

669 – Same as 665 good

670 not quite as good as 665

Tracking Test | 104

671 not good surface as 665

672 Very Electrical –

673 not so good ~~[illegible]~~ as 665 –

674 surface not good –

675 Very Very Electrical

676 [illegible] as 675 –

Tracking Test 105

[illegible] . Some Electrical - surface fogged -

[illegible] Dragged - fogged Electrical -

Dragged & fogged Electrical

[illegible] Dragged & fogged Elec -

[illegible] Bad surface - chip not continuous, thinks it charts Elec

687 Elec surface not very good

Note -

Tracking Test 106

683 . all short chips - fogged. Curious - scarcely any chatter wanders goes to knuffs w some Elec

[illegible] Bad fog - No chatter like - chip 1/16 long, w some Elec

685 Very Bad fog -

[illegible] Bad fog

[illegible] fogged - Drags

[illegible] Very Bad fog

[illegible] fogged

690 fogged

Tracking Test | 107

Very good - Continuous
Chips, not Elec - This acts
is nearly just as good as
651 - ~~Fogged - Considerable~~ -

Fogged Considerable

- Perfect, absolutely Non Elec

Drags - Too high temp
for this Combin -

Drags a little, temps to high
95° -

Not quite as fine surface as
693 - deep tracking chips not
very long - - in this long
chips slightly attracted to
backing -

Tracking Test | 108

Matted - some drag
temp 76° -

698 Poor grain - not Elec, -

699 - Better surface than 698 -
matted grain - not Elec - pretty
good cut, probably can be made
better -

700 Much better than 699 -
Continuous transparent chips where
deep cut, probably wants more
Carnauba -

705 - good - VERY

Tracking Test 109

706 Surface not homogeneous — Chips bunch & cling not Elec

707 Chips bunch & cling surface not good,

708 not good surface

709 Perfect — Very fine grand Chatter marks clean cut like rag way — Not Elec, Chips bunch & twine around — where ball goes makes surface shake bad but good surface very fine

Tracking Test 110

710 Better than 709 - ball has no effect, Chip bunches —

711 about same as 710 —

Temp 76° Faren

712 Surface not very fine, goes to knife no amount of chip Chips Spiral & Short — Not very good slight Elec

713 a little better than 712. Light chip Continuous, heavier spirals Short & Shake Elec —

714 about same as 713 —

Tracking Test | 111

715 Smudged + Dragged Neg —

716 Dragged Good — Don't Mix

718 Drags some — Don't Mix

719 — not quite Coulom
a slight drag surface not
very good —

720 Some drag surface not fine

721 Drags — | short spiral Chips

722 Drags "

723 Drags. "

724 Very poor surface

Tracking Test | 112

725 Very poor surface Electric

726 better surface Drags some
slightly Electrical

727 Not good surface
slightly Electrical —

728 Rough surface — deep
Chip Contamin — Drags
slightly —

729 fair surf — Drags little —

730 surface not good — nearly
coulum straight Not Curlfeed
Chip shade Elec —

Tracking Test | 113

731 Nearly Continuous chip
not spiraled surface not
fine enough —

732 Bad surface —
all molded - chocolate
wax composed of two or
more things - must be
separated to get any
results —

Temp 80 Feb

733. Drags some - not good
surface spiral chips spiraled
some Electrical

Tracking Test | 114

734 Coarse surface NG —

735 Shade of Drag surface
not fine enough slightly Elec
spiral chips - broken knife
Edge when blow neg knife edge

736 Drags better. Surface not
fine - spiral chips —

737 Very poor surface NG

738 Not Elec straight chip -
Rough poor surface —

739 good straight chip
no spiral surface not
fine —

Tracking Test | 115

740 Very Coarse surface NG
741 " " "
742 " " "
743 Surface not good Coarse
744 " " "
745 Drags bad surface
746 Horrible surface
747 " " Drags
748 " "
749 Better but too Coarse surface

Tracking Test | 116

750 Bad mixture Rough —
751 Extremely bad mixture NG
752 Very Rough much better than 751 —
753 Rough like 752.
754 Fair but not quite fine enough grain - smooth a little & not very sharp - Chatters irregular
755 Slightly better than 754
756 Drags —
757 Dont Drag grain not quite fine enough - like 754 —

Tracking Test | 117

758 VERY GOOD no amt of drag — full space — get this out + will be fine — 2 mills

759 Same as 558 but much harder chips short not continuous or as long as 758 — Has same spaces —

760 - like 759 — chips short when deep — if short chips don't hurt to OK but think it will be found too hard + chips stick too much to reamer.

Tracking Test | 118

761 Drags - Curious — powdery chips — goes to knife - clearly defined chatter —
Better make 2 cylinder for Miller —

763 Not so good as 761

764 Good - clearly defined chatter — Chips break up — stick to cylinder 2 mills

Tracking Test 119

770 - OK, Contumax chip on light cut short chip on heavy cut - not Elec fine grain - 2 Miller

771 Very fine - Contumax, chip light or deep tracking - Chatter like Reg - not Elec - 2 Miller

772 About same as 771

773 Light Cut Contumax - deep tracking powdery. Sleek Cylinder - ~~[illegible]~~ Too hard Otherwise OK fine surface, no smut or Dray Chatter like Reg Therm 68

Tracking Test 120

774 Better than 773 Contumax Chip to knife Edge - Surface fine grain Pretty good - 2 Miller

775 Too hard,

776 goes to knife Contumax Chip - GOOD fine grain no smut or Dray 2 Miller Therm 68

777 Little too hard, chips break at knife -

Tracking Test 121

778 chips Continuous to knife. – Pretty good grain fine. Very good – 2 for Miller

779

780 – goes to Knife Continuous Very fine grain – Therm 68 think it could be OK at 75 or 80 slide too hard now Chatter like Ray GOOD 2 for Miller

781 Best for continuous chip get 68 false Continuous beyond Knife – fine grain surface VERY GOOD 2 for Miller

Tracking Test 122

782 all frosted NG –

783 frosted NG –

784 little raff, a slight blush – no drag or burnt deep brown Continuous chip –

785 – NG – bloom on it.

786 ~~the~~ Pretty good – work 2 cylinders for Miller – surface not Extra fine

Tracking Test | 123

787 like 786 –

788 Good. Surface not very fine – 2 for Mullen

789 Very good – 2 for Mullen –

790 Good, too hard, Very fine surface & Elec well defined & like Regular 2 for Mullen –

791 Too hard can scarcely go to knife – Chips break up –

Tracking Test | 124

792 Not so hard as 791 – Continuous chip to knife 2 for Mullen –

793 – good – 2 for Mulle – good grain

794 good 2 for Mullen – good grain

795 – surface not very good = Continuous chip [illegible] to [illegible] Elec

796 Electrical But Very good. 2 Mullen

797 fair but as little Elec

Tracking Test | 125

799 Surface rg - Rollers -

798 Electrical

800 Electric not very fine grain
clumps -

801 Some Elec - clumps -

802 Some Elec not very fine grain

803 " "

804 " "

805 " "

Tracking Test | 126

821 - OK but bad mix/un + surface
not Elec - Knifs OK

822 Bad Mix - all comes off
in powder goes to knife -

825 - Bad Mix + surface - powder
Cut -

826 Bad mix + surface - powder Cut

829 Drags - Bad mix + surface

Tracking Test | 127

871 Works like Reg but appears harder surface not soft.

864 - safir surface not quite so good as reg cobalt wax

863 surface NG -

860 Worst on Record so far

858 NG -

882 — Cant hear anything with Listening like except when just beyond knife edge 40/1000 knife - its very Elec chips chips around, no powdery chips

Tracking Test | 128

900 Very good different from all others Chatter marks Very fine finest yet, goes to knife edge so sharp Cant see it, Some Elec chips chips

901 To hard chips beyond knife edge Very Elec hard & Cow = fin short chips Very few Chatter Not near as good as 900 surface blurred,

Tracking Test | 129

693 - wax #0 (Made Feb 16-1915)

Tempt of wax 296° F
" " water 93-
Started with mould cold except center piece was hot ring cold (wax runs) after 16 min lifts bottom joint and then put steam in ring then back top joint —

by shaving it sound very rough wax was very unclean

Tracking Test | 130

709 - was made same as #693
Made Feb 23-15 (3 -)
1 was shaved 25 of Feb
sent to Mr Miller for shaving 26-
he says it's hard to do so off.